



## NDRRMC UPDATE

### Final Report re Preparedness Measures for Severe Tropical Storm (STS) "ISANG" (I.N. HATO) (22 – 20 August 2017)

Releasing Officer:

**UNDERSECRETARY RICARDO B. JALAD**  
Executive Director, NDRRMC and  
Administrator, OCD

Sources: DOST-PAGASA, DROMIC, OCDROs I, II, MIMAROPA, CALABARZON, VII, IX, XI, NIR, CAR & NCR

#### **I. SITUATION OVERVIEW**

##### **A. Chronology of Typhoon Track**

###### **20 August 2017**

At 11:00 AM, the Low Pressure Area (LPA) East of Batanes has developed into a Tropical Depression and was named "ISANG".

At 11:00 PM, "ISANG" has intensified into a Tropical Storm (TS) as it moved in a westward direction.

###### **21 August 2017**

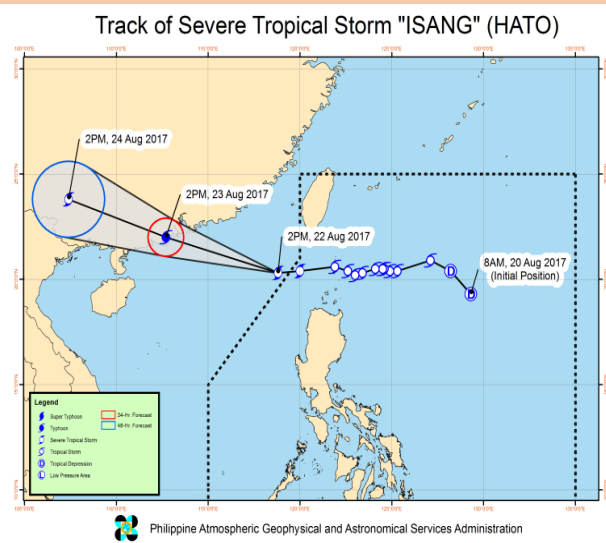
At 5:00 AM, "ISANG" has maintained its strength as it moves in a west north-west direction.

###### **22 August 2017**

TS "ISANG" has intensified into a Severe Tropical Storm (STS) as it continues to move in a westward direction.

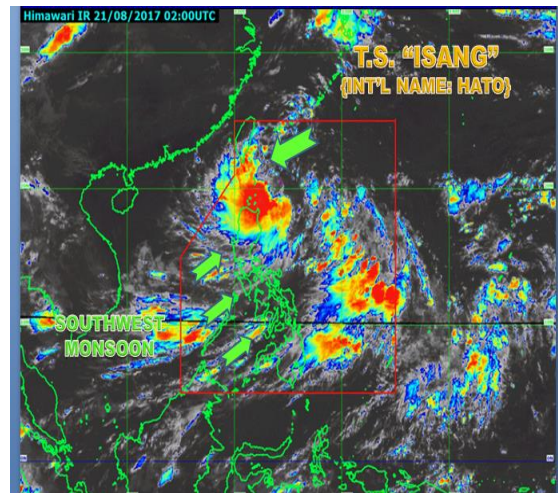
###### **23 August 2017**

STS "ISANG" intensified further as it moved outside of the Philippine Area of Responsibility (PAR).



## B. Typhoon Analysis

During the stay of “ISANG”, the estimated highest sustained winds attained is 110 kph near the center and gustiness of up to 137 kph with a central pressure of 977 hPa. The estimated rain diameter is about 400 km which is within the category, “moderate to occasionally heavy”. A total of 10 International Warning for Shipping (IWS), 1 Weather Advisory and 14 Severe Weather Bulletin (SWB)- (Alert & Warning) were issued.



“ISANG” is the 1st Tropical Cyclone (TC) in August and the 9th TC for the year 2017. “ISANG” is also the 2<sup>nd</sup> TC with STS category (after "EMONG") recorded in PAR. Its stay inside PAR is normal in terms of track and rainfall distribution in the country.

## II. EFFECTS

### A. Suspension of Classes (Tab A)

Classes in **seven municipalities/ 18 cities and eight provinces** in Regions I, CALABARZON, MIMAROPA and NCR were suspended on 22 August 2017.

DATE	REGION/PROVINCE/CITY/ MUNICIPALITY	LEVEL
<b>CALABARZON</b>		
August 22, 2017	1. Rizal Province	ALL LEVELS (Public and Private)
	2. Cavite Province	Pre-School to Senior High School (Public and Private)
	3. Laguna <i>Calamba City</i> <i>San Pedro</i>	ALL LEVELS (Public and Private)
August 22, 2017	1. Occidental Mindoro <i>Mamburao</i>	ALL LEVELS (Public and Private)
	1. Benguet <i>Kapangan</i> <i>Itogon</i>	PRE-SCHOOL ONLY PRE-SCHOOL TO ELEMENTARY
August 22, 2017	2. Province of Abra	PRE-SCHOOL TO HIGH SCHOOL
<b>REGION I</b>		
August 22, 2017	1. Ilocos Norte <i>Laoag City</i>	PRE-SCHOOL TO ELEMENTARY LEVEL (Public and Private)
	<i>Baccara</i>	PRE-SCHOOL TO ELEMENTARY LEVEL
	2. Ilocos Sur <i>San Juan</i>	PRE-SCHOOL TO ELEMENTARY LEVEL (Public and Private)
	<i>Santa</i>	ELEMENTARY AND HIGH SCHOOL LEVEL
	1. Quezon City 2. Navotas City 3. Malabon City 4. Valenzuela City	

August 22, 2017	5. Marikina City	ALL LEVELS (Public and Private)
	6. Caloocan City	
	7. Manila City	
	8. Mandalutong City	
	9. Paranaque City	
	10. Municipality of Pateros	
	11. Las Pinas	
	12. San Juan City	
	13. Pasay City	
	14. Taguig City	
	15. Pasig City	
	16. Muntinlupa City	

## B. Status of Roads and Bridges

One road section in Ilocos Norte was reported damaged on 22 August 2017.

## III. DISASTER PREPAREDNESS

### A. National Disaster Risk Reduction and Management Council

#### 1. NDRRM Operations Center (NDRRMOC)

Conducted Pre-Disaster Risk Assessment (PDRA) meeting re Tropical Depression "ISANG" on 11:00 AM, 20 August 2017 and issued NDRRMC Memorandum to RDRRMCs and OCD ROs re Submission of RDRRMC's Preparedness Actions in relation to "ISANG".

#### 2. Department of Interior and Local Government (DILG)

Directed Local Government Units (LGUs) concerned to take the necessary precautionary measures as outlined in the Operation L!STO.

#### 3. Department of Social Welfare and Development (DSWD)

- a. Prepositioned a total of ₱1,452,329,498.46 worth of stockpiles (₱537,405,695.52) and standby funds (₱914,923,802.94).
- b. Prepositioned a total of 371,033 family food packs (FFPs) in strategic locations all over the country.
- c. Placed personnel of the Disaster Response Operations Monitoring and Information Center (DROMIC), DSWD-DReAMB, and all Quick Response Teams (QRTs) on standby.

#### 4. Philippine Atmospheric, Geophysical and Astronomical Services Administration (DOST-PAGASA)

Disseminated weather forecasts, General Flood Advisories, Severe Weather Bulletins (SWBs) re STS "ISANG" to all concerned agencies and Local Government Units (LGUs).

#### 5. Mines and Geosciences Bureau (DENR-MGB)

Provided list of susceptible areas for flooding and rain-induced landslides to regional offices.

### B. Regional / Local Disaster Risk Reduction and Management Councils (R/LDRRMCs)

#### 1. RDRRMC I

- a. Disseminated Memorandum to member-agencies and PDRMOs re Submission of preparedness Measures regarding STS "ISANG"

- b. Disseminated weather forecasts, weather bulletins and advisories to all concerned local DRRMCs, RDRRMC member-agencies, tri-media and several fishermen associations thru facsimile and SMS
- c. Requested PDRRMCs and RDRRMCs to be on standby for possible rescue, relief and other response operations relative to the present weather disturbance.

**OCD I**

- a. Disseminated Memorandum No. 074 series of 2017 dated 21 August 2017 on the conduct of PDRA Meeting re: Severe Tropical Storm (STS) “ISANG”.

**DILG I**

- a. Monitored the situation in the Area of Responsibility (AOR) and monitored updates from PAGASA.
- b. Forwarded Severe Weather Bulletins to all four provinces and advised Provincial Offices to ensure that Local DRRMCs within their AORs carry out preparedness actions and prepare their communities especially those in low-lying and/or landslide prone area, highways and river banks.

**DSWD I**

- a. Monitored the situation in the Area of Responsibility (AOR) and monitored updates from PAGASA.
- a. Forwarded Severe Weather Bulletin (SWB) to all four Provinces and advised Provincial Offices to ensure that Local DRRMCs within their AORs carry out preparedness actions and prepare their communities especially those in low-lying and/or landslide prone area, highways and river banks.
- b. Maintained a stockpile of 30,596 Family Food packs worth ₱11,520,757.68 which were prepositioned in different strategic locations, broken down as follows:

<b>Municipality/ Province</b>	<b>No. of Stockpiled Relief Goods</b>	<b>Amount (₱)</b>
San Nicolas, Ilocos Norte	1,800	628,200.00
Burgos, Ilocos Norte	1,000	399,080.00
Solsona, Ilocos Norte	600	239,448.00
Vigan City, Ilocos Sur	706	246,394.00
Cervantes, Ilocos Sur	1,000	349,000.00
Caoayan, Ilocos Sur	478	190,760.24
Santa, Ilocos Sur	765	305,296.20
Bauang, La Union	5,212	1,818,988.00
Rosales, Pangasinan	974	388,703.92
Sta. Barbara	5,963	2,351,736.00
Manaoag, Pangasinan	858	290,225.65
Urbiztondo, Pangasinan	2,840	960,653.67
Alaminos City, Pangasinan	5,400	2,155,032.00
Bolinao, Pangasinan	3,000	1,197,240.00

**DENR-MGB I**

- a. Re-issued advisories and warnings for highly critical areas and/or areas highly susceptible to flood and rain-induced landslide hazards to 9 cities and 116 municipalities in the Region.

- b. Activated MGB Operations Center for submission of Status Reports/ Assessment Reports of flooded areas and landslide affected areas.

**Department of Health I**

- a. Placed on code BLUE Status and activated Regional Epidemiologic Surveillance Unit - Health Emergency Management Staff (RESU-HEMS) Operations Center (OpCen) on 8-hours duty.
- b. Coordinated with the RDRRMC 1 teams on duty and placed one (1) generator set is on standby.
- c. Placed four (4) Provincial DOH Offices (PDOHO) OpCen on standby and coordinated with their respective City/Municipal Disaster Risk Reduction and Management Councils (C/MDRRMCs).
- d. Three (3) DOH Retained Hospitals (Ilocos Training and Regional and Medical Center, Region I Medical Center and Mariano Marcos Memorial Hospital and Medical Center) rendered duty.
- e. HEMS Team rendered duty at the DOH ROI RESU-HEMS OpCen.
- f. Stockpiled Assorted Drugs and Medicines with the breakdown as follows:

<b>Province</b>	<b>Items</b>	<b>Amount (₱)</b>
Ilocos Sur	Assorted Drugs, Meds., and Logistics	286, 054.39
Ilocos Norte		594. 235.57
Pangasinan		811.624.11
La Union		703,028.28
DOH ROI Warehouse		11,100,908.35 (estimated cost)
<b>TOTAL</b>		<b>13,497,850.39</b>

**Philippine Coastguard I**

- a. Conducted information-drive, “Paalaala sa Mangingisda sa Panahon ng Tag-bagyo” to local fisher folks within the area of responsibility (AOR).
- b. Pre-positioned all available floating assets within the AOR.
- c. Alerted all deployable response group.
- d. Conducted continuous monitoring in the affected areas.

**Naval Forces Northern Luzon (NFNL) I**

- a. Attended the PDRA Meeting on August 22, 2017 and placed on standby for possible augmentation and any eventualities.

**DPWH I**

- c. Monitored major roads and bridges in the AOR and provided regular updates to OCD-RDRRMC1.

**NATIONAL IRRIGATION ADMINISTRATION (NIA) I**

- a. Advised all NIA Field Offices to close all intake gates of NIA Diversion Works to avoid flooding in the irrigable and residential areas
- b. Opened gates of all check gate structures at drainage irrigation canals to avoid flooding.
- c. Placed all NIA operational heavy equipment and trucks on standby.

**PDRRMC Ilocos Norte**

- a. Informed all Barangay Chairmen and Officials on the prevailing weather condition in the Province for them to disseminate the same to all residents.

- b. Monitored the health condition of vulnerable groups to include senior citizens, PWDs, pregnant women.
- c. Prohibited children from swimming and fishing in swollen rivers and creeks.
- d. Advised all residents to limit outside exposure and stay indoors during heavy downpour, thunderstorm accompanied by lightning.
- e. Advised farmers to secure their livestock in safe areas and for fishermen not to venture out to sea.
- f. Prepositioned equipment - dump trucks, rubber boats, evacuation centers, ambulances, food packs, relief goods, medicines, SAR Teams, personnel and other resources and monitor flood risk areas.

## 2. RDRRMC II

- a. Raised Alert Status to RED ALERT Status effective 11:30 AM, 21 August 2017.
- b. Disseminated RDRRMC Memorandum to all P/C/M DRRMCs regarding raising the Alert Status.
- c. Disseminated weather forecasts, weather bulletins and advisories to all concerned local DRRMCs, RDRRMC member agencies, tri-media and several fishermen associations thru facsimile and SMS

### Department of Science and Technology (DOST) II

- a. Monitored Automatic Rain Gauges (ARG), Water Level Monitoring Stations (WLMS) and Automatic Weather Stations (AWS) to ensure that it sends data every 10-15 minutes.

### DILG II

- a. Coordinated with OCD and PAGASA regarding situation updates.
- b. Disseminated weather advisories/bulletins to LGUs.

### DSWD II

- a. Activated the DRRM team and alerted all SWAD Team in the region.

### PCG II

- a. Placed Quick Response Teams, Operational Control SAR units/vessels and other responding team/units on standby for immediate dispatch/deployment.
- b. Implemented the Guidelines on Movement of Vessels during Heavy Weather Forecast and other PCG rules and regulations.

### Police Regional Office (PRO) II

- a. Placed all units on standby with their disaster response teams particularly in the disaster prone and low-lying areas in coordination with their respective PDRRMC and ensured the readiness of the SAR equipment and supplies.

### PDRRMCs Batanes, Isabela, Quirino, Nueva Vizcaya, and Cagayan

- a. Disseminated weather bulletins/advisories to AOR.
- b. Coordinated with MDRRMC regarding the situation of their AOR.

## 3. RDRRMC CAR

- a. Issued Cordillera RDRRMC Memorandum No. 15 on 22 August 2017 re: Activation of the Alert Status of the Cordillera Regional DRRM Council Operations Center into BLUE ALERT to all Cordillera Regional DRRM Council Members.

- b. Convened concerned members of the Cordillera RDRRMC for the Emergency Response Preparedness Meeting at 9:00 AM today, 22 August 2017 at the Cordillera Regional DRRM Council Operations Center.

#### **OCD CAR**

- a. Alerted P/MDRRMOs regarding the possible effects of "ISANG" through the issuance of a Public Advisory.
- b. Coordinated with PAGASA Baguio Synoptic Station and sent weather advisories to the public, LDRRMCs and member-agencies of the Cordillera RDRRMC.
- c. Coordinated with the Local Disaster Risk Reduction and Management Councils (LDRRMCs) in the region on weather status, road conditions, reported incidents (flooding, landslides, vehicular, etc.) and class suspensions.
- d. Advised all LDRRMCs Operations Centers and member agencies of the regional council to take proactive measures.
- e. Sent public advisories and warning alerts thru text blasts, social media accounts and all available means of communication in partnership with PIA-CAR and local media outlets.
- f. Placed Thuraya Emergency Communications Kit and single side band radios on standby.
- g. Issued preparedness tips to prevent any possible eventualities due to the enhanced southwest monsoon and local thunderstorms.
- h. Coordinated with the management of tourist spots in the region to control the influx of tourists for the prevention of untoward incidents.

#### **DSWD CAR**

- a. Attended the PDRA Meeting at the Cordillera RDRRMC OpCen on 22 August 2017.
- b. Coordinated with P/M/CSWDOs and P/M/C/MDRRM Offices in monitoring the situations on the ground through its SWAD Teams.
- c. Activated Quick Response Teams (QRTs) in full alert and are on stand by for possible response

#### **PIA CAR**

- a. Coordinated with OCD-CAR in gathering important information for awareness raising.
- b. Provided warnings to the public and attended the Emergency Response Preparedness Meeting at the Cordillera RDRRMC OpCen on 22 August 2017.

#### **Police Regional Office CAR**

- a. Placed on standby.
- b. Attended the Emergency Response Preparedness Meeting at the Cordillera RDRRMC OpCen on 22 August 2017.

#### **DENR CAR**

Temporarily suspended all trekking activities in Mt. Pulag until further notice by the Protected Areas Superintendent of DENR-CAR.

#### **PDRRMC Abra**

Recommended the suspension of classes from Elementary to High School (including Senior High) in the province due to continuous rains.

**PDRRMC Apayao**

- a. Coordinated with the Office of Civil Defense-Cordillera (OCD CAR), and Municipal Disaster Risk Reduction and Management Councils (LDRRMCs).
- b. Convened Apayao PDRRMC for PDRA Meeting on 22 August 2017.
- c. Raised PDRRMC OpCen to BLUE alert.

**PDRRMC Kalinga**

- a. Coordinated with OCD CAR city/municipal LGUs and City/Municipal Disaster Risk Reduction and Management Councils (LDRRMCs).
- b. Raised alert status to BLUE alert.

**MDRRMC SAGADA (MT. PROVINCE)**

Issued advisory and directive to close and suspend all caving and spelunking activities in Sagada Caves, Mountain Province.

**4. RDRRMC CALABARZON****OCD CALABARZON**

- a. Monitored and coordinated with CALABARZON P/C/MDRRMOs and RDRRMC member agencies re situations in their respective AOR.
- b. Disseminated advisories and announcements via SMS, Social Media such as Facebook, and Twitter.

**DILG CALABARZON**

- a. Directed weather updates thru SMS and Social Media to LDRRMOs thru DILG Field Officers.
- b. Monitored DILG Field Officers on the effects of heavy rains in their respective jurisdictions.

**PDRRMCs Cavite, Laguna, Batangas, Rizal and Quezon**

Provided updates re Provincial Situation which includes suspension of classes and impassable roads.

**5. MIMAROPA****OCD MIMAROPA**

- a. Disseminated weather advisories and general flood advisories to R/P/CDRRMCs, LGUs, Local Radio Stations and line member agencies through SMS, infoboard, facsimile, and uploaded the same to OCD-RDRRMC MIMAROPA social media accounts to ensure widest dissemination of the advisories.
- b. Coordinated with response agencies, member agencies, and concerned LGUs re Preparedness Measures for the effects of southwest monsoon.
- c. Coordinated with response agencies and concerned LGUs re situation updates and the possible effects of southwest monsoon.

**DILG MIMAROPA**

- a. Advised all Provincial Director (PDs) regarding Flood advisory in respective provinces and cities and coordinated with Provincial offices regarding rainfall warning and flood advisory.
- b. Informed and alerted field officers of possible flooding in their AOR due to heavy rains.



**DSWD MIMAROPA**

- a. Alerted all P/C/M Quick Response Teams (QRTs) in 5 provinces of MIMAROPA and placed all members of R/P/C/M QRTs on standby.
- b. Advised P/M QRTs to coordinate with concerned LGUs to report any unusual eventualities on their respective AOR.

**DOH MIMAROPA**

- a. Coordinated with all hospital within the region to prepare for the influx of patient and alerted additional teams that may be need.
- b. Activated OPCEN on a 24/7 basis and DOH Retained Hospital.
- c. Activated Regional Health Emergency Incident Command System (ICS).
- d. Proactively monitored all health and health related incidents and deployed PDOHO Public Health Team within their catchment areas.
- e. Prepositioned drugs/medicines in PDOHO, DOH Retained Hospitals and LGU Strategic and Areas of Concern.
- f. Advised 505 SAR PAF for possible utilization of Air Ambulance and advised PAMAS Air Ambulance Services for possible air evacuation.
- g. Deployed NDP's and RHMPP's to all areas of concern including exit entry points (Air/Sea Ports) , identified evacuation areas to establish Health Assistance Desk on 24/7 basis.
- h. Issued standing Order for Quad Cluster Team (MHPSS, Nutrition, WASH, Health for deployment.
- i. Issued standing order for Rapid Health Assessment Team.
- j. Advised to condition transport ambulance and ensure availability of all health personnel and advised all DOH REPS/PDOHO in 5 Provinces to be available at the Local Government Units.
- k. Advised Finance Division to ensure availability of funds in cases of emergency purchase and advised Supply Section to coordinate with suppliers for additional requirements.
- l. Advised Transport Section to ensure availability of all vehicles and back up fuel and coordinated with Regional Disaster Risk Reduction Management Council (RDRRMC).

**DOST MIMAROPA**

Provided updates to LGUs and uploaded updates on official social media accounts and utilized Automatic Rain Gauges and Water Level Monitoring Station in MIMAROPA as source of data thru "Project NOAH" and "PREDICT" websites.

**DPWH MIMAROPA**

- a. Alerted Maintenance crew of the District DRRM Teams to monitor condition of National Roads and Bridges and other infrastructures facilities.
- b. Placed equipment on standby ready to mobilize as situation warrants.

**Coast Guard District Southern Tagalog**

- a. Advised all CG stations and substations for the strict implementation of Guidelines on the movement of vessels during heavy weather (HPCG Memo Circular 01-09) and in the absence of weather bulletin in the locality (HPCG Memo Circular 03-01).
- b. Placed deployable Response Groups (DRGs) on standby status 24/7 and monitored all Coast Guards Stations and Sub-Stations re weather forecast.
- c. Coordinated with LGUs, and other government agencies and monitored situation in their respective AORs

- d. Ensured the operational status of HF and VHF radio communications in support of the province operational concern in case of power blackout.

#### **Coast Guard District Palawan**

- a. Advised all CG station and substation for the strict implementation of Guidelines on the movement of vessels during heavy weather (HPCG Memo Circular 01-09) and in the absence of weather bulletin in the locality (HPCG Memo Circular 03-01).
- b. Prepared PCG boarding teams and SAR assets and monitored maritime traffic and weather condition for prompt, sustained and effective implementation of existing command policies, rules and regulations and doctrines.
- c. Placed DRGs and assets on standby status ready for deployment on flood prone and coastal areas.

#### **Police Regional Office (PRO) MIMAROPA**

- a. Ensured the availability of search and rescue assets and personnel.
- b. Alerted all Police Provincial Office down to their lower units and continuous monitoring of situation in their respective AORs.
- c. Coordinated with PAGASA, PDRRMC and other agencies
- d. Directed lower units to undertake precautionary measures and other disaster preparedness activities.

### **6. RDRRMC VII**

- a. Monitored weather situation in AOR thru DOST-PAGASA website and coordinated with LDRRMOs and RDRRMCs member agencies.
- b. Disseminated weather updates and advisory to all member agencies, local chief executives, and LDRRMOs through Smart InfoBoard.

#### **PDRRMC Bohol**

- a. Monitored weather situation within AOR and updated MDRRMOs on the current status of the tropical storm.
- b. Conducted system check to all municipalities and advised MDRRMOs to report any untoward incident.

#### **PDRRMC Cebu and Siquijor**

- a. Monitored weather situation within AOR and disseminated weather updates and advisory to local government units.

#### **Central Command, AFP**

- a. Advised all units to monitor the current status of the tropical storm and monitored areas that are prone to landslide and flashfloods for possible pre-emptive evacuation.
- b. Placed Disaster Response Task Unit (DRTU) on alert for possible deployment and undertook proactive measures and preparation for HADR operations in coordination with LGUs and LDRRMCs.

### **7. REGION IX**

- a. Advised PDRRMOs/LDRRMOs to submit weather updates in their respective AORs and coordinated with DILG regarding the tropical storm.
- b. Disseminated warning/alert information RDRRMC member agencies and LDRRMOs through Smart InfoBoard and advised LDRRMOs to cascade all

- information to local residents particularly those who are residing along flood and landslide-prone areas.
- c. Monitored DRI from LDRRMOs, Regional line agencies, quad media, and other sources for appropriate actions.
  - d. Coordinated with RDRRMC member agencies and LDRRMOs to ensure submission of reports.

## **8. REGION XI**

- a. Raised alert status to RED and monitored AOR for any untoward incidents.
- b. Disseminated weather updates and advisory to all provinces and municipalities thru telefax, social media, and Smart-Infoboard.

## **9. NEGROS ISLAND REGION (NIR)**

- a. Disseminated weather advisory and updates through SMS, social media, and electronic mail to RDRRMC NIR Members, and other stakeholders.
- b. Monitored AOR and coordinated with member agencies and stakeholders.
- c. Disseminated Severe Weather Bulletins to the RDRRMC/NIR Members, LDRRMC of Negros Occidental and Negros Oriental and other concerned stakeholders and local media.

## **10. NATIONAL CAPITAL REGION (NCR)**

### **Metropolitan Manila Disaster Risk Reduction and Management (MMDRRM) Operations Center, Office of Civil Defense – NCR (OCD-NCR) Operations Center**

- a. Monitored and ensured dissemination of Weather Advisories, 24-hour Public Weather Forecasts, Severe Weather Bulletins to all the MMDRRMC Member Agencies and Local Government Units DRRM Offices through redundant means for information, appropriate action and widest dissemination.

### **OCD NCR**

- a. Provided the LDRRMCs and MMDRRMC Member Agencies copies of the presentations during NDRRMC PDRA Meeting held on 20 August 2017.
- b. Disseminated the Department of Environment and Natural Resources Mines and Geosciences Bureau (DENR-MGB) the list of areas prone to landslides.

### **PAGASA NCR**

Disseminated weather forecasts and severe weather bulletins.

### **DSWD NCR**

- a. Placed available stockpile and relief goods for augmentation support to LGUs.
- b. Alerted and activated the Region's Quick Response Team Leaders on any eventualities and to immediately prepare/inform their team members.
- c. Advised the Region's Administrative Division to ensure availability and accessibility for the hauling of goods from the warehouse to field office and LGUs, maximize vehicles from the Center/ Residential Care Facilities for loading and unloading of goods for distribution of food/non-food packs to LGUs and evacuation centers.

### **CDRRMC Navotas City**

- a. Monitored weather condition through PAGASA and reliable websites and disseminated advisories related to flood, rainfall, safety and evacuation.
- b. Coordinated with NGAs for possible rescue and relief assistance.

- c. Made available identified fast moving items for emergency repairs and diesel supply for the pumping stations for continues 24 hour operation for each motor pump.
- d. Established partnership with repair shops for the availability of mechanic to repair equipment as necessary.
- e. Monitored Navotas Action and Command Center (NACC) regarding roads and local weather condition 24/7.
- f. Bureau of Fire – Navotas placed on standby two (2) teams ready to assist and provide emergency response.
- g. Philippine National Police – Navotas placed on standby 2 teams ready to assist and provide emergency response when necessary.
- h. Placed City Health Office / Navotas City Hospital on standby to provide health services to affected families in evacuation centers.
- i. Placed Barangay DRRMCs on alert to monitor all barangays roads and alley.

#### **CDRRMC Pasig City**

Raised alert status.

#### **CDRRMC Quezon City**

- a. Placed YELLOW Alert status effective 2:00 AM, 20 August 2017.
- b. Informed flood prone barangays of the alert status.
- c. Prepositioned water rescue resources in low lying areas.
- d. Monitored EOC on full of weather conditions related to “ISANG”.

#### **CDRRMC Valenzuela City**

- a. Monitored movement of “ISANG” and on the effects of the Southwest Monsoon and disseminated information to Barangay DRRMCs and alerted high risk areas for flooding and landslides.
- b. Prepositioned response and relief assets and prepared all evacuation centers to cater evacuees and tasked Flood Control Personnel to ensure all pumps and fuel are ready for prolonged operation.

#### **CDRRMC Malabon City**

- a. Placed Malabon Rescue teams on standby for possible deployment and prepositioned all assets and ready to dispatch.

#### **CDRRMC Parañaque City**

- a. Advised LDRRMCs to maintain communication lines open for ease of information dissemination and ensured the availability of response resources, response redundancies, and back-up systems.
-